	, (RFEM	Corre	cted by the	ne STIC S	ystems	anen	5.4.	5/13/07
umber:	10 03	9.050		<u>.</u>		EU	ited by	ng Dat :	
Change	d a file from	non-ASC	II to ASCII	e ^y		Ver	ifled by: _	, ,,,,	CSTIC st
Changed	the margi	ns in cases	s where th	e sequence	text was "wr	apped* do	wn to the	next lin .	#3
Edited a	format erro	or in the Cu	urrent Appl	ication Data	section, spe	ecifically	NI	ERE	ED_
				ion with the ata; or ☐ c	actual curre	nt number	. The nun	nber inputte	ed by the
Added th	e mandato	ry heading	g and subh	eadings for	"Current App	olication D	ata".		
Edited th	e "Number	of Sequer	nces" field.	The applic	ant spelled c	out a numb	er instead	d of using a	n integer.
Changed	the spellir	ng of a mar	ndatory fiel	d (the head	ngs or subh	eadings),	specificall	y:	
Correcte	d the SEQ	ID NO who	en obvious	ly incorrect.	The sequer	nce numbe	ers that we	ere edited v	vere:
Inserted	or correcte	d a nucleic	c unimper a	t the end of	a nucleic line	e. SEQ II	O NO's ed	ited:	
Corrected applicant	d subheadi placed a r	ng placem esponse b	ent. All re	sponses mu ubheading, t	st be on the his was mov	same line ed to its a	as each s ppropriate	subheading place.	. If the
Inserted	colons afte	er headings	s/subhead	ings. Headi	ngs edited in	cluded:	,		
Deleted	extra, inval	id, headin	gs used by	an applicar	t, specificall	y:			
Deleted pag	: 🗹 non-A e numbers	SCII "garb throughou	page" at the	e beginning/ other invali	end of files; d text, such	secre	tary initial	s/filename	at end of file
Inserted	mandator	y headings	s, specifica	lly:					
Correcte	ed an obvio	ous error in	the respo	nse, specific	ally:				
Edited id	dentifiers w	here uppe	er case is u	sed but low	er case is red	quired, or	vice versa	•	•
Correcte					d, specificall	y:			
A "Hard		ık" code w			icant. All oc	currences	had to be	deleted.	
Deleted e	n ding sto Patentin bu	p codon in ig). Seque	amino aci	d sequence	s and adjuste	ed the *(A)	Length:" f	ield accord	lingly (error
Other:			•						
	•				_				

*Examiner: The above corrections must be communicated to the applicant in the first Offic Action. DO NOT send a copy of this form.



OIPE

RAW SEQUENCE LISTING DATE: 05/13/2002 PATENT APPLICATION: US/10/039,050 TIME: 16:48:28

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     14 <140> CURRENT APPLICATION NUMBER: 10/039,050
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     18 <150> PRIOR APPLICATION NUMBER: 60/141,441
     19 <151> PRIOR FILING DATE: 1999-06-29
     23 <160> NUMBER OF SEQ ID NOS: 22
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     59 Gln Val Thr Phe Glu Ala His Gly His Thr Asp Pro Phe Asp Val Thr
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                                                                           342
     66 Ser Val His Leu Ser Pro Glu Asn Lys Phe Lys Asn Ser Thr Ile Leu
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     69 aca att cag ccc aaa cag ttg tct gaa ggg caa aac tcg tct tcg cat
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     70 Thr Ile Gln Pro Lys Gln Leu Ser Glu Gly Gln Asn Ser Ser Ser His
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                        105
                                            110
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73 gtg tat ttg gaa gtt gtg tcc aag cat ttt tca aca tca aaa ata atg

Input Set : A:\PTO.DC.txt

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			-		-							_	Thr	_	_		100
79	261	116	135	1 Y T	изр	ASII	Сту	140	пец	FILE	116	GIII	145	тэр	шуз	FIO	
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						_		-	_	-	_		tat	-	_	_	534
	Val	_	Thr	Pro	GLu	GIn		vaı	гàг	vaı	Ala		Tyr	Ser	Leu	Asp	
83		150					155					160				•	
													acg				582
86	Glu	Ala	Leu	Lys	Pro	Val	Thr	Arg	Glu	Thr	Val	Leu	Thr	Phe	Ile	Asp	
87	165					170					175					180	
89	cct	gaa	gga	tcc	gaa	gtt	ggc	ata	gta	gaa	gga	agc	aat	cat	act	gga	630
90	Pro	Glu	Gly	Ser	Glu	Val	Gly	Ile	Val	Glu	Gly	Ser	Asn	His	Thr	Gly	
91					185					190					195		
93	atc	acc	tct	ttc	cct	gac	ttc	agg	att	cct	act	aac	cct	aag	ccc	ggt	678
94	Ile	Thr	Ser	Phe	Pro	Asp	Phe	Arg	Ile	Pro	Thr	Asn	Pro	Lys	Pro	Gly	
95				200		-		•	205					210		-	
	aαa	t.aa	ato		aaσ	act	aaa	t.a.t.		σaa	σat	act	tca		act.	gga	726
	_		-		-	-			-	-	-	-	Ser		_		•
99	**** 9		215		275	111.4	270	220	**** 9	0.2.4		· · · · ·	225	1111	mu		
	200	202		. +++	· maa	att			r cat	· nat	- 222	a act			ata	a gcc	774
										-		-				e Ala	//-
		230		PHE	: GIU	1 116	235		ı nıs	, ASE	nys	240		: пу) TT6	: Ala	
103						. ~~+											022
																ggc	822
			. Pro	Thi	Ser			1 GI	1 Hls	Pro			ı GIU	l Ală	i Arg	g Gly	
	245					250					255					260	070
																g caa .	870
		Sei	Leu	ı G1n		_	Lys	s Sei	r Leu			ı Met	: Ile	His		ıGln	
111					265					270					275		
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115	Ala	Ser	: Lys	Tyr	Lys	His	Pro	Val	L Leu	ı Lys	Lys	Cys	Cys	Туі	Asp	Gly	
116				280)				285	i				290)		
118	gcc	aga	tat	aac	cac	cat	gaa	aco	tgt:	gag	g gaa	ı cga	ıgtt	ged	cgt:	gtg	966
119	Ala	Arg	Tyr	Asn	His	His	Glu	Thi	Cys	Glu	ı Glu	ı Arç	, Val	. Alā	Arg	y Val	
120			295	j				300)				305	j			
122	aaa	ata	ggc	cca	aac	: tgt	gto	aga	gcc	tto	agt	. gaa	ı tgc	: tgt	ged	ctg	1014
123	Lys	Ile	Gly	Pro	Asn	Cys	: Val	Arg	, Ala	Phe	e Ser	Glu	ı Cys	Cys	Ala	ı Leu	
124		310)				315	5				320)				
126	gct	ago	gag	aat	acc	ttt	aaq	, aat	ato	cto	atq	tco	r cgt	ccc	gat	gac	1062
127	Āla	Ser	Glu	Asn	Thr	Phe	Lys	Asr	ılle	Leu	ı Met	Ser	Arq	Pro	Asp	Asp	
	325					330	_				335		_		•	340	
			tat	ttt	act	tta	tet	: act	acc	ata	cto	rαaa	aat	act	: taa		1107
													Asn			-	
132			- 1 -		345		. 501			350					•		
		ta++	CCC	taca			gaan	ratts	אר אם			, +a+	acc+	tca	ct++	tgctgg	1167
																taactt	
																ctggtc	
	_			_		-	_					_				atgeet	
		_	_	_	_	-					_	_	_	_	-	-	
142	ayt	yacc	illy	ceca		CC L	.y.cca	iyyac	ic Cl	.cyyt	.gccc	Lad	icald	yua	yayg	gtgctc	140/

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	Trp	Gly	Gln	Ile	Gln	Met	Ser	Cys	Trp	Pro	Lys	Pro	Leu	Ile	Pro	Glu	
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	Leu	Glu	-	Gln	Arg	Cys	Thr		Val	Thr	Pro	Lys		Phe	Arg	Val	
168		-	35					40					45				
	Gly		Tyr	Glu	Gln	Val		Phe	Glu	Ala	His		His	Thr	Asp	Pro	
171	Dho	50	175.1	mb m	т1 о	C0.2	55	Trra	Cor	m	Dwo	60	T ***	A a n	ת 1 ת	A an	
174	65	Asp	vaı	1111	TTE	70	ire	гуѕ	ser	ıyı	75	ASP	гуѕ	ASII	Ala	80	
		Ser	Ser	Ser	Ser		His	Leu	Ser	Pro		Asn	Lvs	Phe	Lys		
177	-1-	501	002		85					90			-1-		95		
	Ser	Thr	Ile	Leu	Thr	Ile	Gln	Pro	Lys	Gln	Leu	Ser	Glu	Gly	Gln	Asn	
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182	Ser	Ser	Ser	His	Val	Tyr	Leu		Val	Val	Ser	Lys	His	Phe	Ser	Thr	
183			115			_		120				_	125				
	Ser		Ile	Met	Ser	Ile		Tyr	Asp	Asn	Gly		Leu	Phe	Ile	GIn	
186	mb w	130	T ***	Dro	v-1	M	135	Dro	C1	Cln	Dwo	140	T 110	นาโ	Ala	va 1	
	145	ASP	ьуѕ	PIO	val	150	1111	PIO	GIU	GIII	155	Val	гλг	Val	міа	160	
		Ser	Leu	Asp	Glu		Len	Lvs	Pro	Va 1		Ara	Glu	Thr	Val		
192	-1-	-		E	165			-1-		170		5			175		
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196				180					185					190			
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	Pro	_	Pro	GLY	Arg	Trp		IIe	Lys	Ala	Lys	_	Arg	Glu	Asp	Ala	
202	Cor	210	λla	C111	Πh∽	Πh~	215 Wic	Dho	C1.,	т1о	Tvc	220	Uic	N cn	Lys	מומ	
	225	T 11T	AIG	СТУ	1111	230	птэ	FIIE	GIU	116	235	GIU	птэ	изр	цуз	240	
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	Ile	His		Gln	Ala	Ser	Lys		Lys	His	Pro	Val		Lys	Lys	Cys	
214	_	_	275			_	_	280	•		a 3	m1	285		a :		
	Cys		Asp	GLY	Ala	Arg	Tyr 295	Asn	HlS	Hls	GLU		Cys	GLU	Glu	Arg	
217	Val	290	λrα	Va I	Lvc	Tle		Dro	Λer	Cve	Va1	300	λla	Dhe	Ser	Glu	
413	V CL	пта	пта	val	пХэ	TTG	GIY	-10	นวแ	Cys	V CL	тту	тта	F 116	261	JIU	

Input Set : A:\PTO.DC.txt

220	305					310					315					320	
		Cys	Δla	T.e.ii	λla		Glu	Asn	Thr	Phe		Asn	Tle	Len	Met		
223	Cys	0,5	mu	ДСИ	325	001	OLU		1111	330	LIJO			Lou	335	,	
	Ara	Pro	Asp	Asn		Glv	Tvr	Phe	Thr		Ser	Ala	Thr	Tle		Glu	
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242																	
	cca	gcg	cta	σασ	acc			cta	agg		-	cac	átc	aca			100
	-	Ala	_					_			-		-				100
246		лια	пец	15	1111	Olu	Gry	пец	20	rne	пси	1113	141	25	VUI	O L y	
		ctg	cta		age	tat	aac	taa		atc	ctc	ttc	аσс		atc	ctt	148
		Leu															110
250	Ser	ьеи	30	AIG	Jei	1 Y L	GLY	35	1 Y 1	Vai	Бец	rne	40	Cys	110	ЦСи	
	atá	tac		atc	ato	can	аал		tcc	atc	спа	tta		att	tta	agg	196
		Tyr		_		_	_			-	-	_		_	_		100
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		Arg															211
259	60	Arg	GIII	пси	изр	65	AIU	изр	AIU	Vul	70	GIU	110	пор	niu	75	
		aag	caa	caa	nan		tta	acc	act	act		ttα	ana	ato	can		292
	_	Lys	_			-		_	_	_	_	_	-				2,2
263	VUI	בעם	my	0111	80	niu	Deu	niu	niiu	85	mrg	DCu	9	1100	90	014	
	gat	cta	aat	acc		att	паа	aaσ	cat		gaa	aaa	cta	aσa		ctt	340
	_	Leu		-		-	-	_		_	_			-			340
267	rrop	ЦСи	21511	95	01	vul	OI u	275	100	2,5	014	2,5	Leu	105	Q1	Leu	
	αаа	gaa	gaa	-	аσσ	аσа	саσ	ааσ		σаа	atσ	taa	gac		atσ	caa	388
		Glu															000
271	014	014	110		**** 9		01	115	110	014	1100	***	120	001		V 1.1.	
	σаа	ggc		aαt	tac	аσа	аσа		cca	ααа	agg	cct		даа	αаа	αat	436
	_	Gly	_	_		-	_						_	-	_	-	150
275	014	125	**** 9	DOL	-1-	9	130		110	017	**** 9	135	01	014	Olu		
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		Pro															
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		Lys															
283		-10			160	*** 9	1		1	165					170		
	aaa	ggt	ααа	acc		acc	t.aa	aga	cct		cac	aσσ	aac	cca		t.ct.	580
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326
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                                                    45
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329
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331 Gln Ala Asp Ala Val Leu Glu Pro Asp Ala Val Val Lys Arg Gln Glu
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334 Ala Leu Ala Ala Ala Arg Leu Arg Met Gln Glu Asp Leu Asn Ala Gln
338 Val Glu Lys His Lys Glu Lys Leu Arg Gln Leu Glu Glu Glu Lys Arg
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                                   105
341 Arg Gln Lys Ile Glu Met Trp Asp Ser Met Gln Glu Gly Arg Ser Tyr
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347 Thr Ser Ser Ser Val Thr Arg Lys Gly Lys Ser Asp Lys Lys Pro Leu
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VERIFICATION SUMMARY

DATE: 05/13/2002

PATENT APPLICATION: US/10/039,050

TIME: 16:48:29

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Does Not Comply Corrected Diskette Needed

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/039,050

DATE: 05/07/2002

TIME: 10:04:45

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 $\,$ 6 <120> TITLE OF INVENTION: Novel genes and their use in the modulation of obesity, diabetes

7 and energy imbalance

11 <130> FILE REFERENCE: 2309315/TD0

14 <140> CURRENT APPLICATION NUMBER: 10/039,050

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18 <150> PRIOR APPLICATION NUMBER: 60/141,441

19 <151> PRIOR FILING DATE: 1999-06-29

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26 <170> SOFTWARE: PatentIn Ver. 2.0

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VERIFICATION SUMMARY

DATE: 05/07/2002

PATENT APPLICATION: US/10/039,050

TIME: 10:04:46

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